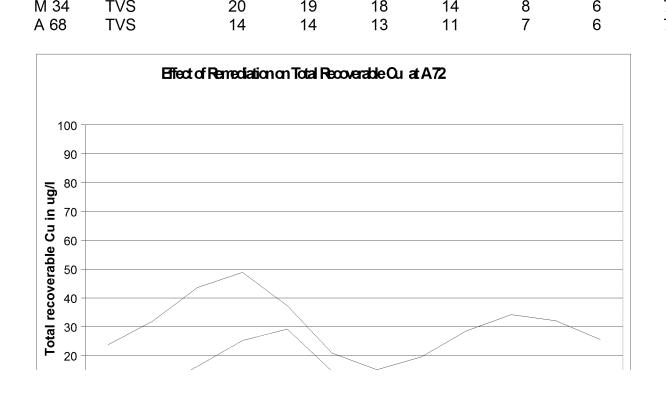
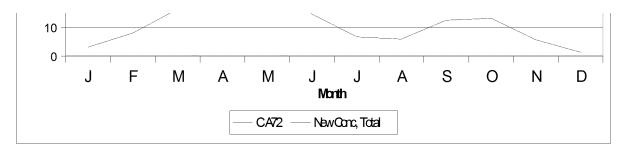
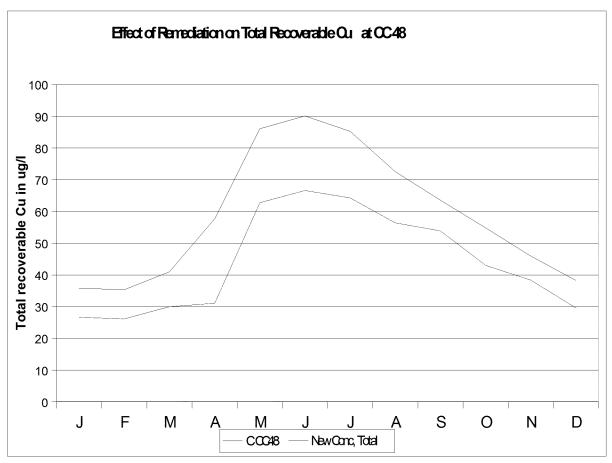
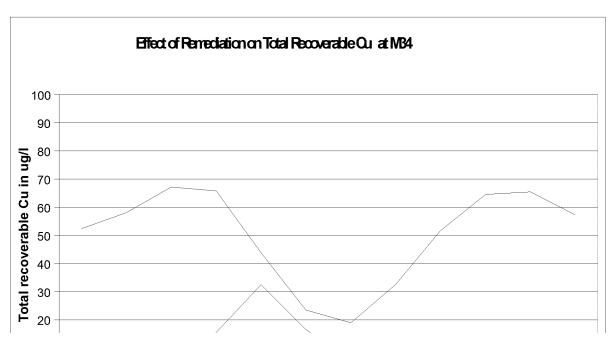
Make entries in yellow shaded areas only										
	-	1	2	3	4	5	6	7		
	M/D/Y	J	F	М	Α	М	J	J		
Discharg	e in cubic fe	eet per sec	ond							
	Q A72	64	63	77	155	682	1196	625		
	Q M34	22	22	28	58	266	468	243		
	Q CC48	14	13	15	22	91	158	83		
	Q A68	25	25	31	66	329	585	300		
Total Cu	in ug/l									
	C A72	24	32	44	49	37	21	15		
	C M34	52	58	67	66	44	24	19		
	C CC48	36	35	41	58	86	90	85		
	C A68	12	19	23	22	20	17	12		
Change	in pounds p	er day								
	A 72	-7	-8	-11	-20	-30	-41	-28		
	M34	-6.00	-7.00	-10.00	-15.80	-16.33	-17.73	-17.10		
	CC48	-1	-1	-1	-3	-11	-20	-9		
	A68	0	0	0	-1	-2	-3	-2		
Remedia	ition Concer	າtration in ເ	ıg/l							
A 72	New Cond		8	16	25	29	15	7		
M34	New Cond	3	0	0	16	32	17	6		
CC 48	New Cond	27	26	30	31	63	67	64		
A68	New Cond		15	20	20	19	16	11		
TVS Cor	ncentration i	n ug/l								
A 72	TVS	11	11	10	8	4	3	3		
M 34	TVS	20	19	18	14	8	6	7		
A 68	TVS	14	14	13	11	7	6	7		

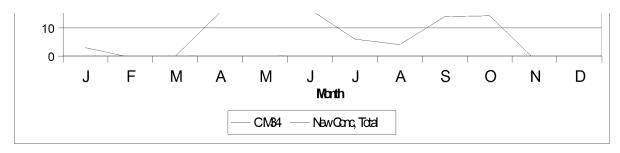


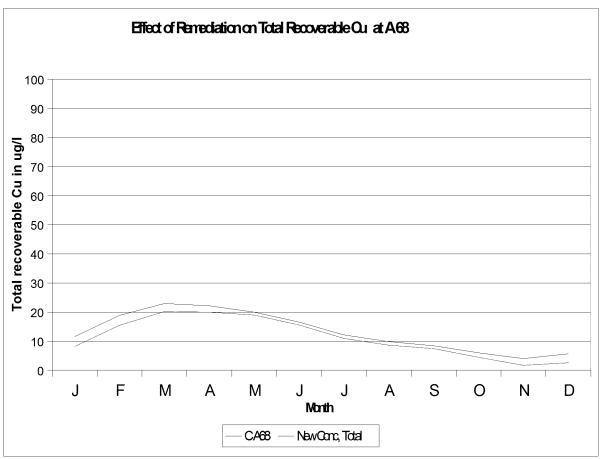




7	8	9	10	11	12
	Α	S	0	N	D
	000	107	110	02	70
	268 103	187 71	142 53	92 33	70 25
	37	26	20	33 16	14
	122	82	60	38	28
	122	02	00	30	20
	20	29	34	32	25
	33	52	65	66	57
	73	64	55	46	38
	10	8	6	4	6
					_
	\sim	4.0	4.0		
	-20	-16	-16	-13	-9
	-15.79	-14.41	-14.42	-12.00	-8.00
	-15.79 -3	-14.41 -1	-14.42 -1	-12.00 - 1	-8.00 -1
	-15.79	-14.41	-14.42	-12.00	-8.00
	-15.79 -3 -1	-14.41 -1 0	-14.42 -1 0	-12.00 -1 0	-8.00 -1 0
	-15.79 -3 -1	-14.41 -1 0	-14.42 -1 0	-12.00 -1 0	-8.00 -1 0
	-15.79 -3 -1 6 4	-14.41 -1 0 12 14	-14.42 -1 0 13 14	-12.00 -1 0 6 -1	-8.00 -1 0 1 -2
	-15.79 -3 -1 6 4 56	-14.41 -1 0 12 14 54	-14.42 -1 0 13 14 43	-12.00 -1 0 6 -1 38	-8.00 -1 0 1 -2 30
	-15.79 -3 -1 6 4	-14.41 -1 0 12 14	-14.42 -1 0 13 14	-12.00 -1 0 6 -1	-8.00 -1 0 1 -2
	-15.79 -3 -1 6 4 56	-14.41 -1 0 12 14 54	-14.42 -1 0 13 14 43	-12.00 -1 0 6 -1 38	-8.00 -1 0 1 -2 30
	-15.79 -3 -1 6 4 56 9	-14.41 -1 0 12 14 54 7	-14.42 -1 0 13 14 43 5	-12.00 -1 0 6 -1 38 2	-8.00 -1 0 1 -2 30 3
	-15.79 -3 -1 6 4 56 9	-14.41 -1 0 12 14 54 7	-14.42 -1 0 13 14 43 5	-12.00 -1 0 6 -1 38 2	-8.00 -1 0 1 -2 30 3







charge in cfs					Copper (Concentrat	ion Coeffi	icients
	Intercept c	oefficient		·			B II	ntercept
	·	L	_ow Flow Nove	mber-March	А	72	0.001	11.68205
M34	-2.771	0.394	-2.28954_	0.38718	M	134	0.01	29.69
CC48	1.752	0.130	6.77165			C48	1.00	95.55
A68	-11.131	0.498				68	0.00	
700	-11.131	0.430	-3.62869 <u> </u>	0.45153		00	0.00	26.09165
Discharge F	Relationships am	ong the three	e gages					
	MONTH	J	F	M	Α	M	J	J
	Intercept	1	1	1	1	1	1	1
	A 72	64	63	77	155	682	1196	625
	M34	22	22	28	58	266	468	243
	CC48	14	13	15	22	91	158	83
	A68	25	25	31	66	329	585	300
	Ground wate	3	3	3	9	-3	-14	-2
1/(1+BO) Di	ischarge Repres	entation						
.,(. 54)5.	A 72	0.9398	0.9407	0.9285	0.8658	0.5945	0.4554	0.6154
	M34	0.8361	0.8385	0.8066	0.6633	0.3016	0.1969	0.3205
	CC48	0.0689	0.0694	0.0629	0.0435	0.0109	0.0063	0.0119
	A68	0.9754	0.9758	0.9698	0.9380	0.7527	0.6311	0.7691
Date variable	les							
	sin	0.1552	0.6358	0.9276	0.9887	0.7862	0.3629	-0.1441
	cos	0.9879	0.7719	0.3737	-0.1496	-0.6180	-0.9318	-0.9896
	sin1	0.3066	0.9815	0.6932	-0.2959	-0.9717	-0.6763	0.2852
	cos1	0.9518	0.1916	-0.7207	-0.9552	-0.2361	0.7366	0.9585
	Consent	1	1	1	1	1	1	1
A72	Intercept	1	1	1	1	1	1	1
	BQ	0.9398	0.9407	0.9285	0.8658	0.5945	0.4554	0.6154
	sin	0.1552	0.6358	0.9276	0.9887	0.7862	0.3629	-0.1441
	cos	0.9879	0.7719	0.3737	-0.1496	-0.6180	-0.9318	-0.9896
	sin1	0.3066	0.9815	0.6932	-0.2959	-0.9717	-0.6763	0.2852
	cos1	0.9518	0.1916	-0.7207	-0.9552	-0.2361	0.7366	0.9585
	Consent	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
A72 Con	centration	24	32	44	49	37	21	15
M34	Intercept	1	1	1	1	1	1	1
	BQ	0.8361	0.8385	0.8066	0.6633	0.3016	0.1969	0.3205
	sin	0.1552	0.6358	0.9276	0.9887	0.7862	0.3629	-0.1441
	cos	0.9879	0.7719	0.3737	-0.1496	-0.6180	-0.9318	-0.9896
	sin1	0.3066	0.9815	0.6932	-0.2959	-0.9717	-0.6763	0.2852
	cos1	0.9518	0.1916	-0.7207	-0.9552	-0.2361	0.7366	0.9585
	Consent	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
M34 Conce		52	58	67	66	44	24	19

CC 48	Intercept	1	1	1	1	1	1	1	
	BQ	0.0689	0.0694	0.0629	0.0435	0.0109	0.0063	0.0119	
	sin	0.1552	0.6358	0.9276	0.9887	0.7862	0.3629	-0.1441	
	cos	0.9879	0.7719	0.3737	-0.1496	-0.6180	-0.9318	-0.9896	
	sin1	0.3066	0.9815	0.6932	-0.2959	-0.9717	-0.6763	0.2852	
	cos1	0.9518	0.1916	-0.7207	-0.9552	-0.2361	0.7366	0.9585	
	Consent	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	
CC 48 Cor	ncentratrion	36	35	41	58	86	90	85	
A68	Intercept	1	1	1	1	1	1	1	
	BQ	0.9754	0.9758	0.9698	0.9380	0.7527	0.6311	0.7691	
	sin	0.1552	0.6358	0.9276	0.9887	0.7862	0.3629	-0.1441	
	cos	0.9879	0.7719	0.3737	-0.1496	-0.6180	-0.9318	-0.9896	
	sin1	0.3066	0.9815	0.6932	-0.2959	-0.9717	-0.6763	0.2852	
	cos1	0.9518	0.1916	-0.7207	-0.9552	-0.2361	0.7366	0.9585	
	Consent								
A68 Co	ncentration	12	19	23	22	20	17	12	
Concentra	tioı	32	39	45	44	32	20	16	
Load in po	unds per day								
	Total Cu	11	13	18	38	140	187	83	
	Dis Cu	8	11	18	41	137	135	51	
	% Difference	-0.26	-0.14	0.01	0.09	-0.02	-0.28	-0.39	
	RPD	0.29	0.15	-0.01	-0.08	0.02	0.32	0.48	

opper Conce	entration	ı Co	efficien	ts				
	BQ	sin	(cos	sin1	(cos1	Consent
	22.7560	7	7.43436	-0.44983	3 -3.8	2683	-9.31243	0.00
	33.14	1	2.19	7.91	-4	1.53	-12.40	0.00
	-867.50)	0.00	0.00) (00.0	0.00	0.00
	-14.4946	9	8.15942	-0.05697	7 2.3	1854 ₋	-2.43287	0.00
		4	S	C)	Ν	D	
		1	1	•		1	1	
	26		187	142		92	70	
	10:		71	50		33	25	
	3		26	20		16	14	
	12:	2 3	82 8	60		38 4	28 3	
	,)	0	*	9	4	3	
	0.788	3	0.8425	0.875	7 0.	9158	0.9346	
	0.527	3	0.6183	0.683	5 0.	7749	0.8222	
	0.026	5	0.0368	0.0470	0.	0572	0.0660	
	0.891)	0.9242	0.9438	3 0.	9635	0.9728	
	-0.627	1	-0.9360	-0.9878	3 -0.	7716	-0.3573	
	-0.778		-0.3521	0.1556		6361	0.9340	
	0.976		0.6591	-0.3074		9816	-0.6674	
	0.213	5	-0.7521	-0.9516	3 - 0.	1908	0.7447	
		1	1	,	1	1	1	
		1	1		1	1	1	
	0.788	3	0.8425	0.875	7 0.	9158	0.9346	
	-0.627		-0.9360	-0.9878		7716	-0.3573	
	-0.778		-0.3521	0.1556		6361	0.9340	
	0.976		0.6591	-0.3074		9816	-0.6674	
	0.213		-0.7521	-0.9516		1908	0.7447	
	1.000		1.0000	1.0000		0000	1.0000	
	20	,	29	34	•	32	25	
		1	1			1	1	
	0.527		0.6183	0.683		7749	0.8222	
	-0.627		-0.9360	-0.9878		7716	-0.3573	
	-0.778		-0.3521	0.1556		6361	0.9340	
	0.9769 0.2139		0.6591 -0.7521	-0.3074 -0.9516		9816 1908	-0.6674 0.7447	
	1.000		1.0000	1.0000		0000	1.0000	
	33		52	65		66	57	

1	1	1	1	1	
0.0265	0.0368	0.0470	0.0572	0.0660	
-0.6271	-0.9360	-0.9878	-0.7716	-0.3573	
-0.7789	-0.3521	0.1556	0.6361	0.9340	
0.9769	0.6591	-0.3074	-0.9816	-0.6674	
0.2135	-0.7521	-0.9516	-0.1908	0.7447	
1.0000	1.0000	1.0000	1.0000	1.0000	
73	64	55	46	38	
1	1	1	1	1	
0.8910	0.9242	0.9438	0.9635	0.9728	
-0.6271	-0.9360	-0.9878	-0.7716	-0.3573	
-0.7789	-0.3521	0.1556	0.6361	0.9340	
0.9769	0.6591	-0.3074	-0.9816	-0.6674	
0.2135	-0.7521	-0.9516	-0.1908	0.7447	
10	8	6	4	6	
21	30	35	35	32	
40	34	28	17	12	
28	29	26	16	10	
-0.29	-0.15	-0.07	-0.09	-0.20	-0.15
0.33	0.16	0.07	0.09	0.22	

A72								
	Chronic TV	S at A72			Pr	edicction I	Equation C	oefficients
	a2 b	2					AluminumC	
Cd	-2.715	0.7852		В		0.006	1.000	0.006
Cu	-1.7428	0.8545		In	tercept	82.304	-26.540	1.020
Mn	5.8743	0.3331		В	Q	200.676?	5610.562	1.466
Zn	0.8669	0.8473		siı	n	16.936	158.116	0.599
				CC	s	48.860	40.749	0.066
				siı	n1	15.385	127.998	-0.265
				CC	s1	-5.633	6.691	-0.292
1				C	onsent			
			_		_		_	_
	Month	J	F	_M	Α	M	J	J
	Q	64	63	77	155	682	1196	625
	Hardness	277	290	268	196	91	53	72
	Al ch	87	87	87	87	87	87	87
	Cd ch	5.5	5.7	5.3	4.2	2.3	1.5	1.9
	Cu ch	11	11	10	8	4	3	3
	Mn ch	2317	2352	2290	2064	1598	1333	1481
	Zn ch	279	290	271	208	109	68	90

M 34								
			Predic	ction equa	tion coeffic	cients		
		Hardness Alu	ıminum	Cadmium	Copper	Iron	Zinc	
	В	0.013	1.00	0.021	0.123	0.06521	0.021	
	Intercept	60.05228315	.10361	0.91724	14.65129	77.70523	205.25873	
	BQ	205.02801338	.29032	0.60966	00.98354	370.29706	378.11589	
	sin	9.24827369	.03843	0.26911	14.16661	-89.38888	88.77920	
	cos	32.30173379	.08681	0.20991	10.17487	38.04002	85.94018	
	sin1	435	.43127	-0.12214	1.04278	86.24646	-17.99615	
	cos1	123	.10453	-0.14689	-3.82920	-12.30367	-45.60154	
	consent	-265	.10754	-	-10.75402	35.80515	-98.00378	
	MONTH		_	3.4			•	,
	MONTH	J	F	M	Α	M	J	J
Avg monthly	Q	22	22	28	58	266	468	243
	Hardness	255	241	226	170	86	60	76
Chronic Stan	Al, ch	87	87	87	87	87	87	87
	Cd,ch	2.4	2.3	2.1	1.7	1.0	0.8	0.9
	Cu ch	20	19	18	14	8	6	7

Mr	n 2253	2212	2163	1969	1571	1389	1504
Zn o	ch 260	248	235	185	104	76	93

A68 Anima	as at Silve	erton						
			diction e	equation c	oefficients			
		Hardness Ca		•	Mangane:			
	3	0.011na		na	0.010	0.016		
	ntercept	37.945	2.395	5.783		304.617		
E	3Q	165.600			1371.923	644.136		
s	sin		1.712	2.049	611.024	315.451		
(cos		0.140	0.729	81.662	-18.603		
5	sin1		-0.250	-1.520	16.031	-33.783		
(cos1		-1.185	-0.472	-263.628	-140.108		
	May		-1.936	2.261	-258.699			
	consent		-0.714	-1.828	411.428	-67.174		
Animas R	Month	J	F	М	Α	М	J	J
	Q	25	25	31	66	329	585	300
H	Hardness	168	168	161	134	74	60	76
	Cd,tvs	1.7	1.7	1.7	1.4	0.9	8.0	0.9
	Cu tvs	14	14	13	11	7	6	7
	Mn tvs	1959	1961	1934	1818	1491	1393	1508
nic stand	Zn tvs	182	183	177	151	91	77	94

ction Equation Coeffi	cients			
· _		Zinc		
0.100	0.048	0.014		
11.592	325.430	272.266		
-11.516	6156.248	697.432		
5.618	310.323	155.229		
5.955	262.025	37.490		
1.700	-72.066	-37.359		
-0.594	-177.065	-77.421		
-1.491				
Α	S	0	Ν	D
268	187	142	92	70
124	158	182	215	248
87	87	87	87	87
2.9	3.5	3.9	4.5	5.0
5	7	7	9	10
1772	1920	2013	2129	2233
141	173	195	225	255

	Acute TV	S at M34	Chronic T	VS at M34
	a2	b2	a3	b3
Cd	-3.828	3 1.128	3 -3.49	0.7852
Cu	-0.7703	0.9422	2 -1.7428	0.8545
Mn	4.4995	0.7893	3 5.8743	0.3331
Zn	0.8904	0.847	3 0.8669	0.8473
А	S	0	N	D
10	_	_		
12				
	.0 13 13 13 13 13 13 13 13 13 13 13 13 13			
1.				
	1 13			

1783	1892	2050	2136	2246
144	167	205	227	258

		Chronic TV a2 b			
Cd		-3.49	0.7852		
Cu		-1.7428	0.8545		
Mn		5.8743	0.3331		
Zn		0.8669	0.8473		
	Α	S	0	Ν	D
	122	82	60	38	28
	109	125	138	155	165
	1.2	1.4	1.5	1.6	1.7
	10	11	12	13	14
	1695	1777	1836	1908	1947
	126	142	155	171	180